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REMARKS

Reconsideration is requested.

Claims 1-23 are pending. Claims 1, 2, 6, 10 and 15 are the pending independent

claims. Claims 1, 6 and 10 have been revised to further defined the substituents as

described, for example, on pages 63-65 of the specification. Claims 1, 6 and 10 have

described, for example, of pages of the specimentor. Stating 1, 5 and 16 have

been revised without prejudice, to advance prosecution. The claimed enamines are not

found in or suggested by the cited art .

The Examiner's comments in §5., spanning pages 5-7 of the Office Action dated

April 15, 2009 are noted. As there is no rejection or objection of the claims or

specification stated therein, no further comments from the applicants in response are

believed to be required. The applicants do not necessarily agree with the Examiner's

determinations stated on pages 5-7 of the Office Action.

The objections to claims 15, 17 and 19 noted in § 6. on page 7 of the Office

Action dated April 15, 2009 are obviated by the above amendments. No new matter

has been added. Withdrawal of the objections is requested.

The following documents have been cited by the Examiner in the Office Actions

of May 1, 2008 and April 15, 2009 as the basis of rejections and/or provisional

rejections:

D1 - JP2003-12619 (Kobata):

D2 - U.S. Patent No. 6,210,847 (Miyauchi);

D3 - U.S. Patent No. 4,898,799 (Fujimaki);

D4 - U.S. Patent No. 6,270,936 (Tanaka);

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D5 - U.S. Patent No. 5.292.604 (Nukada):

D6 - U.S. Patent No. 6,489,072 (Sasaki);

D7 - U.S. Patent No. 5,250,990 (Fujimura);

D8 - JP08-185089 (Mitsushi);

D9 - U.S. Patent No. 4,522,483 (Matsumoto);

D10 - U.S. Patent No. 6,178,303 (Ishii);

D11 - U.S. Patent No. 7,175,956 (Obata);

D12 - U.S. Patent Application No. 10/993,770;

D13 - JP 10-239875 (Tatsuya);

D14 - U.S. Patent No. 5,238,765 (Senoo);

D15 - U.S. Patent No. 5,554,472 (Aizawa);

D16 - Diamond, Handbook of Imaging Materials (pp 413 and 415);

D17 - U.S. Patent No 7.457.565 (Fuiii):

D18 - U.S. Patent No. 7,449,269 (Sugimura);

D19 - U.S. Patent No. 7,416,824 (Kondoh);

D20 - U.S. .Patent Application No. 10/559.1871:

D21 - U.S. .Patent Application No. 10/575,0097;

D22 - U.S. .Patent Application No. 10/544,454; and

D23 - U.S. .Patent Application No. 11/198,405.

 $^{^{\}rm 1}$ The application issued as U.S Patent No. 7,534,539 on May 19, 2009.

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Specifically, the Office Action of April 15, 2009 contains the following art

rejections and provisional rejections, wherein the cited art is identified by the above-

noted document, or "D", numbers and the numbering of the rejections is continued from

the applicants Amendment of August 18, 2008:

19) Claims 10 and 11 have been rejected under Section 103 as allegedly having

been obvious over D13;

20) Claims 1, 2, 4 and 22 have been rejected under Section 103 as allegedly

having been obvious over D13;

21) Claims 1, 2, 3 and 21 have been rejected under Section 103 as allegedly

having been obvious in view of a combination of D13 and D2;

22) Claims 1, 2, 3 and 21 have been rejected under Section 103 as allegedly

having been obvious in view of a combination of D13 and D4;

23) Claims 6-9 and 15 has been rejected under Section 103 as allegedly having

been obvious in view of a combination of D13 and D5;

24) Claims 10-14 have been rejected under Section 103 as allegedly having

been obvious in view of a combination of D13 and D6:

25) Claims 16-20 have been rejected under Section 103 as allegedly having

been obvious in view of a combination of D13, D7, D8, D14, D9 and D10;

26) Claims 16-20 have been rejected under Section 103 as allegedly having

been obvious in view of a combination of D13, D8, D9, D10, D4 and D15;

27) Claims 1-3, 16, 18 and 21 have been rejected under the judicially created

doctrine of obviousness-type double patenting over claims 1-6 of D17;

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28) Claims 1, 2, 4, 16, 18 and 22 have been rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-6 of D17 "in view of" D3:

- 29) Claims 1, 2, 5, 6, 15, 16, 18 and 23 have been rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-6 of D17 "in view of" D4;
- 30) Claims 6-9, 15, 16 and 18 have been rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-6 of D17 "in view of" D5;
- 31) Claims 10-14, 16 and 18 have been rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-6 of D17 "in view of" D6;
- 32) Claims 1 and 4 have been rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-11 of D18 "in view of" D3;
- 33) Claims 1, 5 and 6 have been rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-11 of D18 "in view of" D4:
- 34) Claims 6-9 have been rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-11 of D18 "in view of" D5;
- 35) Claims 10-14 have been rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-11 of D18 "in view of" D6;
- 36) Claim 1 has been rejected under the judicially created doctrine of obviousness-type double patenting over claims 3-9 of D19;
- 37) Claims 1-3 have been rejected under the judicially created doctrine of obviousness-type double patenting over claims 3-9 of D19 "in view of" D2;

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38) Claims 1 and 4 have been rejected under the judicially created doctrine of obviousness-type double patenting over claims 3-9 of D19 "in view of" D3;

- 39) Claims 1, 5 and 6 have been rejected under the judicially created doctrine of obviousness-type double patenting over claims 3-9 of D19 "in view of" D4:
- 40) Claims 6-9 have been rejected under the judicially created doctrine of obviousness-type double patenting over claims 3-9 of D19 "in view of" D5:
- 41) Claims 10-14 have been rejected under the judicially created doctrine of obviousness-type double patenting over claims 3-9 of D19 "in view of" D6;
- 42) Claims 1-3, 16, 18 and 21 have been provisionally rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-3, 5 and 11-13 of D20 "in view of" D2:
- 43) Claims 1, 2, 4, 16, 18 and 22 have been provisionally rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-3, 5 and 11-13 of D20 "in view of" D3;
- 44) Claims 1, 2, 5, 6, 15, 16, 18 and 23 have been provisionally rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-3, 5 and 11-13 of D20 "in view of" D4;
- 45) Claims 10-14 have been provisionally rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-3, 5 and 11-13 of D20 "in view of" D6;

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46) Claims 1-3, 16, 18 and 21 have been provisionally rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-7 of D21 "in view of" D2:

47) Claims 1, 2, 4, 16, 18 and 22 have been provisionally rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-7 of D21 "in view of" D3:

48) Claims 1, 2, 4, 5, 6, 16, 18 and 23 have been provisionally rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-7 of D21 "in view of" D4:

49) Claims 6-9, 15, 16 and 18 have been provisionally rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-7 of D21 "in view of" D5;

50) Claims 10-14, 16 and 18 have been provisionally rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-7 of D21 "in view of" D6;

51) Claims 1-3, 16, 18 and 21 have been provisionally rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-25 of D22 "in view of" D2;

52) Claims 1, 2, 4, 16, 18 and 22 have been provisionally rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-25 of D22 "in view of" D3:

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53) Claims 1, 2, 5, 6, 15, 16, 18 and 23 have been provisionally rejected under

the judicially created doctrine of obviousness-type double patenting over claims 1-25 of

D22 "in view of" D4;

54) Claims 6-9, 15, 16 and 18 have been provisionally rejected under the

judicially created doctrine of obviousness-type double patenting over claims 1-25 of D22

"in view of" D5:

55) Claims 10-14, 16 and 18 have been provisionally rejected under the

judicially created doctrine of obviousness-type double patenting over claims 1-25 of D22

"in view of" D6:

56) Claims 1-3, 16 and 21have been provisionally rejected under the judicially

created doctrine of obviousness-type double patenting over claims 1 and 4-6 of D23 "in

view of D2:

57) Claims 1, 2, 4, 16 and 22 have been provisionally rejected under the judicially

created doctrine of obviousness-type double patenting over claims 1 and 4-6 of D23 "in

view of D3:

58) Claims 1, 2, 5, 6, 15, 16 and 23 have been provisionally rejected under the

judicially created doctrine of obviousness-type double patenting over claims 1 and 3-6

of D23 "in view of" D4; and

59) Claims 6-9, 15 and 16 have been provisionally rejected under the judicially

created doctrine of obviousness-type double patenting over claims 1 and 4-6 of D23 "in

view of" D6

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Reference is made in the following remarks to the above rejections (19) – (59) and documents D1-D23.

Rejections (19)-(26)

Rejections (19)-(26) are traversed. Reconsideration and withdrawal of the rejections are requested in view of the following distinguishing comment.

Independent claims 1, 6 and 10 all require an enamine compound represented by the general formula (1)

Independent claims 2 and 15 require an enamine compound represented by the following general formula (2):

At a minimum, the enamine compounds of the claims would not have been obvious from the cited art.

Specifically, the Examiner relies on document D13 to allege the obviousness of the enamines of the claimed invention. The Examiner asserts that it would have allegedly been obvious to have modified the following compound (20) of document D13, in view of the following compound (40) of document D13 to have made a compound "within the compositional limitations of enamine compound formula (I) recited" in the claims²:

(40)

The Examiner asserts that alteration of the styryl group $-CH=CH-C_6H_6$ of compound (20) above with a styryl moiety $-(CH=CH)-CH=CH-C_6H_6$, such that "m" of the following general formula (1) of document D13 is 1:

² See for example, page 10 of the Office Action dated April 15, 2009.

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, and replacing the phenylene (A1 of the

general formula (1) of D13) of compound (20) above with a naphthalene group, as is shown in compound (40) above, will allegedly obviously produce an enamine compound of the claims.

The Examiner's modifications of compound (20) above are provided in the following schematic:

The Examiner has asserted therefore that the following symmetrical modified compound (20) of document D13 (hereinafter compound (20')) would have been obvious:

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The Examiner's compound (20') of document D13 is understood to be applied to the compounds of formula (1) of independent claims 1, 6 and 10 as follows:

The applicants submit however that the enamines of independent claims 1, 6 and 10 do not include such a symmetrical structure.

The Examiner's compound (20') of document D13 is not within the "compositional limitations of the enamines of independent claims 1, 6 and 10, nor in claims 3-5, 7-9, 11-14, and 16-20 (in part), dependent therefrom. It would not have been obvious from

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document D13, or documents combined therewith in the above-noted rejections (21)-

(26), to have made the enamines of independent claims 1, 6 and 10, and claims 3-5, 7-

9, 11-14, and 16-20 (in part), dependent therefrom. Independent claims 1, 6 and 10.

and claims 3-5, 7-9, 11-14, and 16-20 (in part), dependent therefrom, are submitted to

be patentable over document D13 and the combinations of art cited in the above-noted

rejections (21)-(26).

Independent claims 2 and 15, and claims 16-20 (in part) and claims 21-23,

dependent therefrom, are also submitted to be patentable over the teachings of

document D13 and the combinations of art cited in the above-noted rejections (20)-(23)

and (25) as, at a minimum, the enamines of independent claims 2 and 15 would not

have been obvious from the teachings of document D13 or the combinations of art cited

in the above-noted rejections (20)-(23) and (25).

Specifically, the Examiner is understood to believe that the Examiner's

compound (20')

"is also within the compositional limitations of formula (2)

recited in instant claim 2, when the "d" groups of formula (2)

bond to each other to form a cyclic structure."

The enamines of formula (2) of independent claims 2 and 15 do not include the

structure of the Examiner's hypothetical symmetrical compound (20').

The Examiner's compound (20') of document D13 is not within the "compositional

limitations of the enamines of independent claims 2 and 15, nor in claims 16-20 (in part)

and claims 21-23, dependent therefrom. It would not have been obvious from

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document D13, or documents combined therewith in the above-noted rejections (20)-

(23) and (25), to have made the enamines of independent claims 2 and 15, and claims

16-20 (in part) and claims 21-23, dependent therefrom. Independent claims 2 and 15.

and claims 16-20 (in part) and 21-23, dependent therefrom, are submitted to be

patentable over document D13 and the combinations of art cited in the above-noted

rejections (20)-(23) and (25).

The secondary references of documents cited in the above-noted rejections (21)-

(26) are not believed to cure the above-noted deficiencies of document D13.

Withdrawal of the above-noted rejections (19)-(26) is requested.

Rejections (27)-(59)

Rejections (27)-(59) are obviated by the attached Terminal Disclaimers and

related fees. The attached Terminal Disclaimers are being filed without prejudice, to

advance prosecution. Entry of the attached Terminal Disclaimers and withdrawal of the

above-noted rejections (27)-(59) are requested.

The claims are submitted to be in condition for allowance and a Notice to that

effect is requested. The Examiner is requested to contact the undersigned, preferably

by telephone, in the event anything further is required in this regard.

³ See pages 12, 13, 16 and 18 of the Office Action dated April 15, 2009.

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Respectfully submitted,

NIXON & VANDERHYE P.C.

By: /B. J. Sadoff/
B. J. Sadoff
Reg. No. 36,663

BJS:

901 North Glebe Road, 11th Floor Arlington, VA 22203-1808

Telephone: (703) 816-4000 Facsimile: (703) 816-4100